

**In the claims**

Claims 4,5 and 37-56 are presently pending. Claims 4 and 5 stand rejected under 35 U.S.C. §103 (a). Claims 37-41 have been deemed allowable and claims 42-56 stand rejected under 35 U.S.C. §112 first paragraph.

Please cancel claims 4 and 5 without prejudice to filing continuing, divisional or continuation-in-part-applications.

Cancel claims 1-36.

37. A TK-1 retroviral vector which expresses a factor VIII protein

38. The retroviral vector of claim 37 wherein said factor VIII protein is a B-domain deleted factor VIII protein.

39. The retroviral vector of claim 38 wherein said B-domain deleted factor VIII protein is the factor VIII SQN deletion.

40. The retroviral vector of claim 39 wherein said factor VIII protein comprises the amino acid sequence depicted in Seq. ID No. 47.

41. The retroviral vector of claim 40 wherein said factor VIII protein is encoded by the nucleic acid sequence depicted in Seq. ID No. 46.

42. A retroviral vector which expresses a factor VIII protein, wherein said retroviral vector is selected from the group consisting of pBA-5a, pBA-5b and pBA-5c.

43. The retroviral vector of claim 42 wherein said factor VIII protein is a B-domain deleted factor VIII protein.

44. The retroviral vector of claim 43 wherein said B-domain deleted factor VIII protein is the factor VIII SQN deletion.

45. The retroviral vector of claim 44 wherein said factor VIII protein comprises the amino acid sequence depicted in Seq. ID No. 47.

46. The retroviral vector of claim 45 wherein said factor VIII protein is encoded by the nucleic acid sequence depicted in Seq. ID No. 46.

47. A pBA-9b retroviral vector which expresses a factor VIII protein.

48. The retroviral vector of claim 47 wherein said factor VIII protein is a B-domain deleted factor VIII protein.

48. The retroviral vector of claim 47 wherein said factor VIII protein is a B-domain deleted factor VIII protein.

49. The retroviral vector of claim 48 wherein said B-domain deleted factor VIII protein is the factor VIII SQN deletion.

50. The retroviral vector of claim 49 wherein said factor VIII protein comprises the amino acid sequence depicted in Seq. ID No. 47.

51. The retroviral vector of claim 50 wherein said factor VIII protein is encoded by the nucleic acid sequence depicted in Seq. ID No. 46.

52. A pBA-8b retroviral vector which expresses a factor VIII protein.

53. The retroviral vector of claim 52 wherein said factor VIII protein is a B-domain deleted factor VIII protein.

54. The retroviral vector of claim 53 wherein said B-domain deleted factor VIII protein is the factor VIII SQN deletion.

55. The retroviral vector of claim 54 wherein said factor VIII protein comprises the amino acid sequence depicted in Seq. ID No. 47.

56. The retroviral vector of claim 55 wherein said factor VIII protein is encoded by the nucleic acid sequence depicted in Seq. ID No. 46.

Claims 57-90 cancelled.